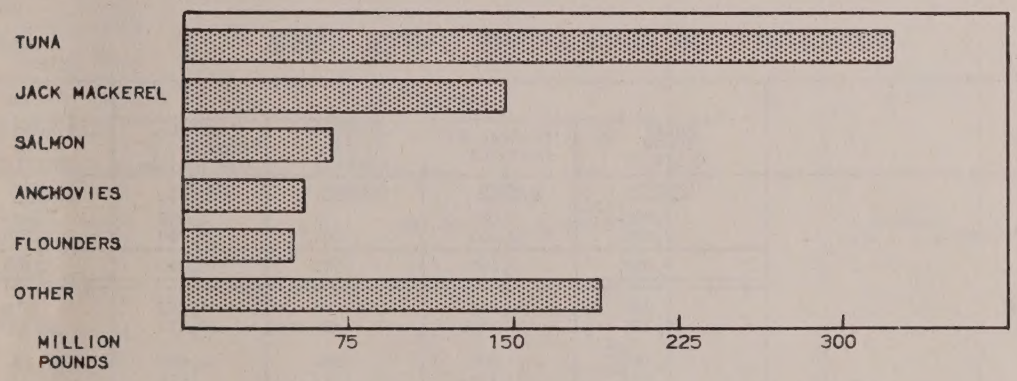
PACIFIC COAST STATES FISHERIES—1952

Department of the Interior
Washington 25, D.C.

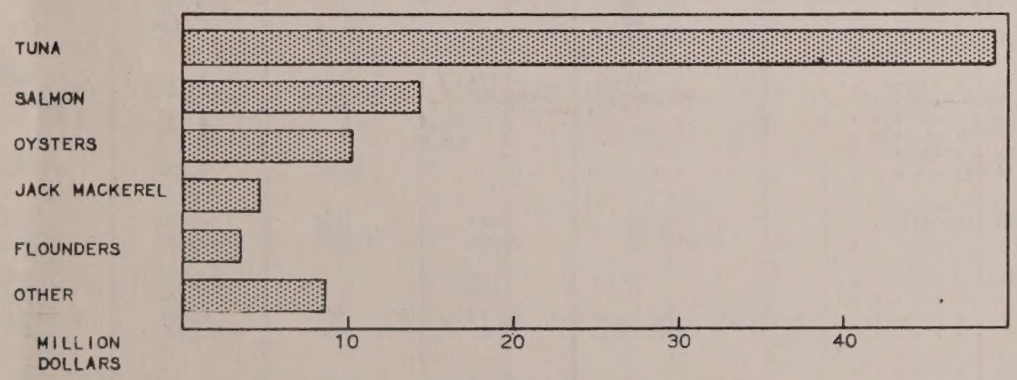
Fish and Wildlife Service
Branch of Commercial Fisheries

C. F. S. No. 1026 Annual Summary

PACIFIC COAST STATES CATCH, 1952



VALUE OF PACIFIC COAST STATES CATCH, 1952



During 1952, the production of fish and shellfish in the Pacific Coast States (Washington, Oregon, and California) amounted to 831,879,000 pounds valued at $90,720,000 to the fishermen. This represented a decrease of over 235 million pounds or 22 percent in quantity and $6.5 million or 7 percent in value compared with the landings of the previous year. Pilchard landings (14 million pounds) were nearly 315 million pounds below the production of the previous year. Tuna receipts (323 million pounds) rose 5.7 million pounds during 1952 compared with 1951, while salmon (69 million pounds) dropped 28.3 million pounds during the same period.

PACIFIC COAST STATES FISHERIES
SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1952

PRODUCT	WASHINGTON		OREGON	
	POUNDS	VALUE	POUNDS	VALUE
FISH	117,705,600	$16,261,236	41,696,400	$5,110,809
SHELLFISH, ETC.	14,061,800	2,572,158	6,582,200	938,351
TOTAL	131,767,400	18,833,394	48,278,600	6,049,160

PRODUCT	CALIFORNIA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
FISH	632,188,000	$62,844,326	791,590,000	$84,216,371
SHELLFISH, ETC.	19,645,100	2,993,139	40,289,100	6,503,648
TOTAL	651,833,100	65,837,465	831,879,100	90,720,019

SUMMARY OF OPERATING UNITS, 1952

ITEM	WASHINGTON				OREGON
	PUGET SOUND DISTRICT	COASTAL DISTRICT	COLUMBIA RIVER DISTRICT	TOTAL, EXCLUSIVE OF DUPLICATION	COLUMBIA RIVER DISTRICT
	NUMBER	NUMBER	NUMBER	NUMBER,	NUMBER
FISHERMEN:					
ON VESSELS	4,580	1,001	74	5,036	931
ON BOATS AND SHORE	2,678	2,302	861	5,709	1,378
TOTAL	7,258	3,303	935	10,745	2,309
VESSELS, MOTOR	986	465	47	1,242	315
NET TONNAGE	19,729	5,663	421	22,472	6,785
BOATS:					
MOTOR	1,196	679	554	2,527	743
OTHER	387	114	17	518	7
ACCESSORY BOATS	280	-	-	280	-
GEAR:					
PURSE SEINES AND LAMPARA NETS, SALMON	314	-	-	314	-
LENGTH, YARDS	196,250	-	-	196,250	-
HAUL SEINES	99	4	2	105	-
LENGTH, YARDS	10,500	400	200	11,100	-
GILL NETS:					
SALMON	641	454	403	1,486	562
SQUARE YARDS	887,000	489,250	1,290,000	2,645,250	1,798,000
SHARK	47	-	-	47	-
SQUARE YARDS	25,850	-	-	25,850	-
SMELT	-	-	6	6	80
SQUARE YARDS	-	-	2,300	2,300	30,000
LINES:					
TRAWL, SET, OR HAND, OTHER THAN ALBACORE	30,500	145	110	30,610	535
HOOKS	610,800	2,900	11,000	621,800	12,823
TROLL:					
ALBACORE	55	145	-	170	875
HOOKS	55	145	-	170	875
SALMON	4,220	3,336	618	6,632	1,172
HOOKS	20,700	16,680	2,800	32,470	5,275
POUND NETS	6	-	-	6	-
BRUSH WEIRS	2	-	-	2	-
DIP NETS	24	14	279	316	559
REEF NETS	101	-	-	101	-
BEAM TRAWLS	3	-	-	3	-
YARDS AT MOUTH	27	-	-	27	-
OTTER TRAWLS	166	18	-	171	48
YARDS AT MOUTH	2,490	270	-	2,565	720
TRAPS:					
CRAB	9,600	9,700	600	19,000	5,200
CRAWFISH	-	-	-	-	900
OCTOPUS	100	-	-	100	-
SHRIMP	300	-	-	300	-
DREDGES, OYSTER	20	54	-	74	-
YARDS AT MOUTH	40	108	-	148	-
TONGS AND RAKES, OYSTER	35	50	-	85	-
SHOVELS, CLAM	350	1,523	-	1,873	-

(CONTINUED ON NEXT PAGE)

PACIFIC COAST STATES FISHERIES

SUMMARY OF OPERATING UNITS, 1952 - Continued

ITEM	OREGON - CONTINUED		CALIFORNIA		
	COASTAL DISTRICT	TOTAL, EXCLUSIVE OF DUPLICATION	NORTHERN DISTRICT	SAN FRANCISCO DISTRICT	MONTEREY DISTRICT
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	801	1,541	1,390	836	1,297
ON BOATS AND SHORE	1,421	2,733	320	984	435
TOTAL	2,222	4,274	1,710	1,820	1,732
VESSELS, MOTOR	345	572	432	502	386
NET TONNAGE	4,979	10,574	6,910	8,504	7,324
BOATS:					
MOTOR	582	1,275	268	650	265
OTHER	29	36	-	-	-
ACCESSORY BOATS	-	-	10	18	29
GEAR:					
PURSE SEINES AND LAMPARA NETS:					
SARDINE (PILCHARD)	-	-	-	1	24
LENGTH, YARDS	-	-	-	450	10,800
TUNA	-	-	-	-	3
LENGTH, YARDS	-	-	-	-	1,980
OTHER 1/	-	-	1	17	65
LENGTH, YARDS 1/	-	-	200	3,400	13,000
HAUL SEINES	2	2	-	-	-
LENGTH, YARDS	330	330	-	-	-
GILL NETS:					
"CALIFORNIA HALIBUT"	-	-	-	-	12
SQUARE YARDS	-	-	-	-	83,520
SALMON	614	1,161	-	185	-
SQUARE YARDS	537,800	2,314,800	-	793,800	-
SEA BASS	-	-	-	-	5
SQUARE YARDS	-	-	-	-	11,545
SHAD	-	-	-	73	-
SQUARE YARDS	-	-	-	342,516	-
SHARK	-	-	-	20	-
SQUARE YARDS	-	-	-	175,000	-
SMELT	-	80	-	-	-
SQUARE YARDS	-	30,000	-	-	-
OTHER	-	-	21	50	28
SQUARE YARDS	-	-	20,900	50,400	27,500
LINES:					
TRAWL, SET, OR HAND:					
ALBACORE	-	-	66	166	184
HOOKS	-	-	66	166	184
OTHER	260	735	758	230	1,270
HOOKS	5,200	16,823	32,620	7,130	66,040
TROLL:					
ALBACORE	625	1,430	1,925	2,480	3,400
HOOKS	625	1,430	1,925	2,480	3,400
SALMON	2,422	3,046	2,201	2,745	738
HOOKS	10,900	13,535	9,186	12,942	4,164
FYKE NETS	-	-	-	980	-
DIP NETS	-	559	24	16	12
BAG NETS, SHRIMP	-	-	-	6	-
LENGTH, YARDS	-	-	-	3,840	-
BEAM TRAWLS	-	-	2	22	1
YARDS AT MOUTH	-	-	14	146	10
OTTER TRAWLS	22	60	44	37	12
YARDS AT MOUTH	330	900	660	555	180
TRAPS:					
CRAB	14,300	17,800	10,980	11,450	150
CRAWFISH	-	900	-	-	-
OCTOPUS	-	-	-	-	25
HARPOONS, SWORDFISH	-	-	1	-	-
DREDGES, OYSTER	8	8	-	-	-
YARDS AT MOUTH	16	16	-	-	-
TONGS AND RAKES, OYSTER	15	15	-	12	-
SHOVELS, CLAM	779	779	6	-	10
ABALONE OUTFITS	-	-	-	4	-

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST STATES FISHERIES

SUMMARY OF OPERATING UNITS, 1952 - Continued

ITEM	CALIFORNIA - CONTINUED				PACIFIC COAST GRAND TOTAL, (EXCLUSIVE OF DUPLICATION)
	SANTA BARBARA DISTRICT	SAN PEDRO DISTRICT	SAN DIEGO DISTRICT	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	1,675	4,999	4,036	8,114	13,708
ON BOATS AND SHORE	402	1,757	1,018	4,698	13,140
TOTAL	2,077	6,756	5,054	12,812	26,848
VESSELS, MOTOR	266	890	794	1,768	3,173
NET TONNAGE	8,014	36,672	35,245	49,504	81,551
BOATS:					
MOTOR	182	826	470	2,190	5,992
OTHER	-	-	-	-	554
ACCESSORY BOATS	84	310	250	520	776
GEAR:					
PURSE SEINES AND LAMPARA NETS:					
BARRACUDA	-	6	4	8	8
LENGTH, YARDS	-	2,550	1,990	4,450	4,450
MACKEREL	40	154	-	164	164
LENGTH, YARDS	18,320	70,840	-	75,520	75,520
SALMON	-	-	-	-	314
LENGTH, YARDS	-	-	-	-	196,250
SARDINE (PILCHARD)	65	212	10	234	234
LENGTH, YARDS	29,250	95,400	4,500	105,300	105,300
TUNA	-	88	6	97	97
LENGTH, YARDS	-	29,920	3,840	35,740	35,740
OTHER 1/	8	90	10	166	166
LENGTH, YARDS	1,600	18,000	2,000	33,200	33,200
HAUL SEINES	-	-	-	-	107
LENGTH, YARDS	-	-	-	-	11,430
GILL NETS:					
BARACUDA	3	17	15	29	29
SQUARE YARDS	21,600	147,740	95,440	219,390	219,390
"CALIFORNIA HALIBUT"	-	-	-	12	12
SQUARE YARDS	-	-	-	83,520	83,520
SALMON	-	-	-	185	2,832
SQUARE YARDS	-	-	-	793,800	5,753,850
SEA BASS	27	40	23	83	83
SQUARE YARDS	180,200	250,600	180,860	544,485	544,485
SHAD	-	-	-	73	73
SQUARE YARDS	-	-	-	342,516	342,516
SHARK	10	-	15	45	92
SQUARE YARDS	87,500	-	131,250	393,750	419,600
SMELT	-	-	-	-	86
SQUARE YARDS	-	-	-	-	32,300
OTHER	6	13	8	126	126
SQUARE YARDS	6,000	15,200	8,400	128,400	128,400
TRAMMEL NETS	9	31	13	45	45
SQUARE YARDS	54,000	162,006	67,700	240,891	240,891
LINES:					
TRAWL, SET, OR HAND:					
ALBACORE	103	820	920	1,459	1,459
HOOKS	103	820	920	1,459	1,459
YELLOWFIN	-	1,613	2,197	2,870	2,845
HOOKS	-	1,613	2,197	2,870	2,845
OTHER	347	1,681	248	4,304	35,361
HOOKS	30,668	60,367	13,711	203,406	829,645
TROLL:					
ALBACORE	980	6,324	6,240	15,800	15,900
HOOKS	980	6,324	6,240	15,800	15,900
SALMON	20	-	-	4,800	12,478
HOOKS	120	-	-	22,240	58,245
OTHER	-	331	72	398	398
HOOKS	-	331	72	398	398
POUND NETS	-	-	-	-	6
BRUSH WEIRS	-	-	-	-	2
FYKE NETS	-	-	-	980	980
DIP NETS	-	-	-	52	927
BRAIL OR SCOOP NETS	-	550	-	550	550
REEF NETS	-	-	-	-	101
BAG NETS, SHRIMP	-	-	-	6	6
LENGTH, YARDS	-	-	-	3,840	3,840
BEAM TRAWLS	2	-	-	27	30
YARDS AT MOUTH	16	-	-	186	213
OTTER TRAWLS	14	-	-	101	318
YARDS AT MOUTH	210	-	-	1,515	4,770

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST STATES FISHERIES

SUMMARY OF OPERATING UNITS, 1952 - Continued

ITEM	CALIFORNIA 1/ - CONTINUED				PACIFIC COAST GRAND TOTAL, (EXCLUSIVE OF DUPLICATION)
	SANTA BARBARA DISTRICT	SAN PEDRO DISTRICT	SAN DIEGO DISTRICT	TOTAL, EXCLUSIVE OF DUPLICATION	
GEAR - CONTINUED	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
TRAPS:					
CRAB	435	-	-	20,551	57,351
CRAWFISH	-	-	-	-	900
LOBSTERS, SPINY	1,325	3,270	1,260	4,395	4,395
OCTOPUS	-	-	-	25	125
SHRIMP	-	-	-	-	300
HARPOONS, SWORDFISH	10	40	14	47	47
DREDGES, OYSTER	-	-	-	-	82
YARDS AT MOUTH	-	-	-	-	164
TONGS AND RAKES, OYSTER	16	-	-	28	128
SHOVELS, CLAM	-	-	18	34	2,686
ABALONE OUTFITS	34	35	14	65	65

1/ INCLUDES HAUL SEINES OPERATED IN INLAND WATERS FOR CARP AND OTHER ROUGH FISH.

CATCH BY STATES, 1952

SPECIES	WASHINGTON		OREGON 1/	
FISH	POUNDS	VALUE	POUNDS	VALUE
CARP	10,600	$1,064	-	-
COD	10,707,700	565,248	136,100	$6,803
FLOUNDERS:				
"SOLE"	11,742,000	1,062,207	11,959,100	777,380
OTHER	1,266,800	75,850	244,000	8,330
GRAYFISH	3,064,900	48,871	46,700	1,458
HAKE	9,800	49	82,500	2,393
HALIBUT	17,593,300	3,087,909	415,600	73,445
HERRING, SEA	717,600	43,056	5,800	321
LAMPREY	-	-	262,000	6,550
LINGCOD	3,734,000	362,869	681,600	48,203
OCEAN PERCH	1,695,500	91,562	4,737,600	219,444
PERCH	153,200	19,616	1,600	127
RATFISH	1,420,600	10,654	-	-
ROCKFISHES	10,156,400	548,332	3,783,500	188,375
SABLEFISH	3,182,000	326,592	313,800	30,395
SALMON:				
CHINOOK OR KING	11,618,200	2,908,143	7,948,200	1,899,026
CHUM OR KETA	11,726,800	1,374,666	372,400	28,855
PINK	10,400	1,423	-	-
RED OR SOCKEYE	8,127,400	2,302,124	472,800	135,685
SILVER OR COHO	17,437,000	3,094,164	4,318,600	674,066
TOTAL SALMON	48,919,800	9,680,520	13,112,000	2,737,632
SHAD	224,600	24,193	773,800	58,488
SHARKS	14,800	2,655	3,300	594
SKATES	977,100	4,886	500	16
SMELT:				
EULACHON	811,700	117,453	466,000	88,544
SURF OR SILVER	668,800	67,059	-	-
STEELHEAD TROUT	272,700	49,086	1,396,400	251,630
STRIPED BASS	-	-	17,800	1,420
STURGEON	184,600	38,026	182,100	43,342
TUNA AND TUNALIKE FISHES:				
ALBACORE	177,100	33,479	2,585,400	487,653
SKIPJACK OR STRIPED	-	-	107,800	17,242
YELLOWFIN	-	-	381,400	61,024
TOTAL TUNA AND TUNALIKE FISHES	177,100	33,479	3,074,600	565,919
TOTAL FISH	117,705,600	16,261,236	41,696,400	5,110,809

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST STATES FISHERIES

CATCH BY STATES, 1952 - Continued

SPECIES	WASHINGTON		OREGON 1/	
	POUNDS	VALUE	POUNDS	VALUE
SHELLFISH				
CRABS, DUNGENESS	4,265,800	$557,105	5,456,700	$661,582
CRAWFISH, FRESH-WATER	-	-	38,300	7,666
SHRIMP, BAY	17,300	5,189	-	-
CLAMS:				
HARD	299,300	114,947	-	-
RAZOR	290,400	103,699	130,800	60,707
MIXED	-	-	39,900	9,510
TOTAL CLAMS	589,700	218,646	170,700	70,217
OCTOPUS	43,100	2,151	-	-
OYSTERS, MARKET:				
PACIFIC	9,018,400	1,649,621	916,500	198,886
WESTERN	120,200	137,028	-	-
TOTAL OYSTERS	9,138,600	1,786,649	916,500	198,886
SCALLOPS, BAY	6,700	2,389	-	-
SQUID	600	29	-	-
TOTAL SHELLFISH	14,061,800	2,572,158	6,582,200	938,351
GRAND TOTAL	131,767,400	18,833,394	48,278,600	6,049,160

SPECIES	CALIFORNIA 1/		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
FISH				
ANCHOVIES	55,782,900	$1,153,156	55,782,900	$1,153,156
BARRACUDA	2,094,200	330,029	2,094,200	330,029
CABEZONE	34,500	1,074	34,500	1,074
CABRILLA	574,300	86,207	574,300	86,207
CARP	809,700	43,320	820,300	44,384
CATFISH	178,600	36,467	178,600	36,467
COD	-	-	10,843,800	572,051
FLOUNDERS:				
"CALIFORNIA HALIBUT"	525,300	127,068	525,300	127,068
"SOLE"	20,919,800	1,429,883	44,620,900	3,269,470
OTHER	1,339,000	73,092	2,849,800	157,272
FLYING FISH	50,700	3,794	50,700	3,794
GRAYFISH	(2)	(2)	2/3,111,600	2/50,329
GROUPER	829,800	164,571	829,800	164,571
HAKE	6,100	123	98,400	2,565
HALIBUT	242,100	52,071	18,251,000	3,213,425
HARDHEAD	15,600	5,128	15,600	5,128
HERRING, SEA	9,495,400	225,662	10,218,800	269,039
JACK MACKEREL	146,521,700	4,754,969	146,521,700	4,754,969
KINGFISH	3,273,500	127,815	3,273,500	127,815
LAMPREY	-	-	262,000	6,550
LINGCOD	1,365,600	107,226	5,781,200	518,298
MACKEREL	20,604,700	785,464	20,604,700	785,464
MULLET	90,200	9,050	90,200	9,050
OCEAN PERCH	-	-	6,433,100	311,006
PERCH	297,200	38,936	452,000	58,679
POMPANO	32,100	11,489	32,100	11,489
RATFISH	-	-	1,420,600	10,654
ROCK BASS	86,800	13,124	86,800	13,124
ROCKFISHES	10,720,200	609,962	24,660,100	1,346,669
SABLEFISH	1,343,900	90,778	4,839,700	447,765
SALMON:				
CHINOOK OR KING	6,524,200	1,667,733	26,090,600	6,474,902
CHUM OR KETA	-	-	12,099,200	1,403,521
PINK	-	-	10,400	1,423
RED OR SOCKEYE	-	-	8,600,200	2,437,809
SILVER OR COHO	750,600	135,108	22,506,200	3,903,338
TOTAL SALMON	7,274,800	1,802,841	69,306,600	14,220,993
SARDINE (PILCHARD)	14,330,400	523,120	14,330,400	523,120
SCULPIN	83,600	17,816	83,600	17,816
SEA BASS:				
BLACK	313,500	48,416	313,500	48,416
WHITE	1,147,000	354,103	1,147,000	354,103
SHAD	640,300	47,692	1,638,700	130,373
SHARKS	2/622,700	2/52,776	2/640,800	2/56,025
SHEEPSHEAD	36,300	3,103	36,300	3,103
SIERRA	2,500	293	2,500	293

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1952 - Continued

SPECIES	CALIFORNIA 1/		TOTAL	
FISH	POUNDS	VALUE	POUNDS	VALUE
SKATES	138,700	$2,339	1,116,300	$7,241
SMELT:				
EULACHON	-	-	1,277,700	205,997
SURF OR SILVER	646,100	44,088	1,314,900	111,147
SPANISH MACKEREL	5,400	730	5,400	730
SPLITTAIL	1,500	238	1,500	238
STEELHEAD TROUT	-	-	1,669,100	300,716
STRIPED BASS	-	-	17,800	1,420
STURGEON	-	-	366,700	81,368
SUCKERS	6,700	206	6,700	206
SWORDFISH	265,700	100,208	265,700	100,208
TOMCOD	1,000	123	1,000	123
TUNA AND TUNALIKE FISHES:				
ALBACORE	49,794,800	8,625,477	52,557,300	9,146,609
BLUEFIN	4,576,700	733,224	4,576,700	733,224
BONITO	2,142,500	206,592	2,142,500	206,592
SKIPJACK OR STRIPED	84,736,100	10,890,377	84,843,900	10,907,619
YELLOWFIN	178,437,500	28,213,877	178,818,900	28,274,901
TOTAL TUNA AND TUNALIKE FISHES	319,687,600	48,669,547	322,939,300	49,268,945
WHITEBAIT	152,100	16,042	152,100	16,042
WHITEFISH	8,800	694	8,800	694
YELLOWTAIL	9,447,000	874,228	9,447,000	874,228
UNCLASSIFIED	142,400	5,265	142,400	5,265
TOTAL FISH	632,188,000	62,844,326	791,590,000	84,216,371
SHELLFISH				
CRABS:				
DUNGENESS	12,997,400	1,893,011	22,719,900	3,111,698
ROCK	17,000	715	17,000	715
TOTAL CRABS	13,014,400	1,893,726	22,736,900	3,112,413
CRAWFISH, FRESH-WATER	-	-	38,300	7,666
LOBSTERS, SPINY	806,700	337,282	806,700	337,282
SHRIMP:				
BAY	909,500	68,482	926,800	73,671
OCEAN	208,500	25,204	208,500	25,204
ABALONE	956,800	431,094	956,800	431,094
CLAMS:				
HARD	14,500	18,492	313,800	133,439
RAZOR	-	-	421,200	164,406
MIXED	-	-	39,900	9,510
TOTAL CLAMS	14,500	18,492	774,900	307,355
MUSSELS, SEA	100	44	100	44
OCTOPUS	18,600	1,344	61,700	3,495
OYSTERS, MARKET:				
EASTERN	22,500	30,576	22,500	30,576
PACIFIC	22,600	16,132	9,957,500	1,864,639
WESTERN	-	-	120,200	137,028
TOTAL OYSTERS	45,100	46,708	10,100,200	2,032,243
SCALLOPS, BAY	-	-	6,700	2,389
SQUID	3,670,900	170,763	3,671,500	170,792
TOTAL SHELLFISH	19,645,100	2,993,139	40,289,100	6,503,648
GRAND TOTAL	651,833,100	65,837,465	831,879,100	90,720,019

1/ INCLUDES THE CATCH TAKEN OFF LATIN AMERICA. 2/ THE CATCH OF GRAYFISH IN CALIFORNIA IS INCLUDED WITH SHARKS.

NOTE:--THE POUNDAGE AND VALUE OF THE CATCH SHOWN FOR WASHINGTON AND OREGON INCLUDES 889,985 POUNDS OF FISH LIVERS AND VISCERA, VALUED AT $224,302 TO THE FISHERMEN. COMPRISING THIS TOTAL WERE: GRAYFISH LIVERS, 258,179 POUNDS, VALUE $44,028; HALIBUT LIVERS, 205,336 POUNDS, VALUE $73,180; LINGCOD LIVERS, 82,112 POUNDS, VALUE $48,466; SABLEFISH LIVERS, 86,545 POUNDS, VALUE $16,957; SOUPFIN SHARK LIVERS, 2,162 POUNDS, VALUE $3,243; AND HALIBUT AND SABLEFISH VISCERA, 255,651 POUNDS, VALUE $38,428. SIMILAR DATA ARE NOT AVAILABLE FOR CALIFORNIA. LANDINGS OF GRAYFISH AND SHARKS ARE BASED ON A LIVER YIELD OF 12 PERCENT OF THE ROUND WEIGHT, SINCE MOST OF THE CARCASSES OF THESE SPECIES WERE DISCARDED AT SEA AFTER REMOVAL OF THE LIVERS.

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